

1 30. (NEW) The console of claim 29, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 31. (NEW) The console of claim 30, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 ~~32.~~ (NEW) A medical system, comprising:
2 a handpiece that has a reciprocating tip; and,
3 a control circuit that is coupled to said handpiece and generates packets of pulses,
4 each packet being separated by a pause period of no pulses.

1 33. (NEW) The system of claim 32, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 34. (NEW) The system of claim 33, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 ~~35.~~ (NEW) A console that can be coupled to a handpiece that has a
2 reciprocating tip that can be inserted through a tissue of a patient, comprising:
3 a control circuit that can be coupled to the console and generates packets of pulses,
4 each packet being separated by a pause period of no pulses so that the tip does not generate
5 heat that denatures the tissue.

1 36. (NEW) The console of claim 35, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 37. (NEW) The console of claim 36, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 ~~38.~~ (NEW) A medical system, comprising:
2 a handpiece that has a tip that can be inserted through a tissue of a patient; and,
3 a control circuit that is coupled to said handpiece and generates packets of pulses,
4 each packet being separated by a pause period of no pulses so that said tip does not generate
5 heat that denatures the tissue.

1 39. (NEW) The system of claim 38, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

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1 40. (NEW) The system of claim 39, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 ~~41.~~ (NEW) A console that can be coupled to a handpiece that has a
2 reciprocating tip that can be inserted through a cornea of a patient, comprising:
3 a control circuit that be coupled to the console and generates packets of pulses, each
4 packet being separated by a pause period of no pulses so that the tip does not generate heat
5 that denatures the cornea.

1 42. (NEW) The console of claim 41, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 43. (NEW) The console of claim 42, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 44. (NEW) The console of claim 41, wherein the temperature does not exceed
2 45 degrees centigrade.

1 ~~45.~~ (NEW) A medical system, comprising:
2 a handpiece that has a tip that can be inserted through a cornea of a patient; and,
3 a control circuit that is coupled to said handpiece and generates packets of pulses,
4 each packet being separated by a pause period of no pulses so that said tip does not generate
5 heat that denatures the cornea.

1 46. (NEW) The system of claim 45, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

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1 47. (NEW) The system of claim 46, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 48. (NEW) The system of claim 45, wherein the temperature does not exceed
2 45 degrees centigrade.

1 ~~49.~~ (NEW) A method for performing an ophthalmic procedure, comprising:
2 inserting a tip into a cornea;
3 moving the tip with a plurality of pulse packets, each pulse packet being separated by
4 a pause period so that the tip does not generate heat which denatures the cornea.

1 50. (NEW) The method of claim 49, wherein each pulse packet has a time
2 duration between 0.5-5.0 milliseconds.

1 51. (NEW) The method of claim 50, wherein the pause period has a time
2 duration between 3.5-50 milliseconds.

1 52. (NEW) The method of claim 49, wherein the temperature does not exceed
2 45 degrees centigrade.

1 53. (NEW) A medical system, comprising:
2 a cutting element;
3 a transducer coupled to said cutting element; and,
4 a control circuit that is coupled to said transducer and generates packets of pulses,
5 each packet being separated by a pause period of no pulses.

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1 54. (NEW) The system of claim 53, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 55. (NEW) The system of claim 54, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 56. (NEW) A medical system, comprising:
2 a cutting element that can be placed in contact with a tissue of a patient;
3 a transducer coupled to said cutting element; and,
4 a control circuit that is coupled to said transducer and generates packets of pulses,
5 each packet being separated by a pause period of no pulses so that said tip does not generate
6 heat that denatures the tissue.

1 57. (NEW) The system of claim 56, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 58. (NEW) The system of claim 57, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 ~~59.~~ (NEW) A medical system, comprising:
2 a cutting element that can be placed in contact with a cornea of a patient;
3 a transducer coupled to said cutting element; and,
4 a control circuit that is coupled to said transducer and generates packets of pulses,
5 each packet being separated by a pause period of no pulses so that said tip does not generate
6 heat that denatures the cornea.

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1 60. (NEW) The system of claim 59, wherein each packet has a time duration
2 between 0.5-5.0 milliseconds.

1 61. (NEW) The system of claim 60, wherein each pause period has a time
2 duration between 3.5-50 milliseconds.

1 62. (NEW) The system of claim 59, wherein the temperature does not exceed
2 45 degrees centigrade.

1 ~~63.~~ (NEW) A method for performing an ophthalmic procedure, comprising:
2 placing a cutting element into contact with a tissue of a patient;